BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains in Amruthahalli and surroundings Ward No - 07

MODIFIED ESTIMATE

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB, 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	AMRUTHALLI								
	Padma Tent Road(North side)		1	82.00	1.10	1.10	99.22		
	Padma Tent Road(South side)		1	79.90	1.10	1.10	96.68		
	1st cross road (East side)		1	143.10	1.10	1.10	173.15		
	1st cross road(West side)		1	156.10	1.10	1.10	188.88		
	2nd cross road(East side)		1	143.40	1.10	1.10	173.51		
	2nd Cross road(West Side)		1	150.40	1.10	1.10	181.98		
	3rd Cross road(East Side)		1	149.50	1.10	1.10	180.90		
	3rd Cross Road (West Side)		1	144.30	1.10	1.10	174.60		
	1st A Cross Road (North Side)		1	62.00	1.10	1.10	75.02		
	1st A Cross Road (South Side)		1	83.10	1.10	1.10	100.55		
	Kashinagar (North Side)		1	282.20	1.10	1.00	310.42		
	Perpendicular Road (West Side)		1	49.80	1.10	1.00	54.78		
	1st Parallel Road (South Side)		1	170.10	1.10	1.10	205.82		
	1st Parallel Road (North Side)		1	168.20	1.10	1.10	203.52		
	2nd Parallel Road (South Side)		1	71.20	1.10	1.00	78.32		
	2nd Parallel Road (North Side)		1	71.00	1.10	1.00	78.10		
	Perpendicular Road (West Side)		1	30.20	1.10	1.10	36.54		
	Hoysala Layout								
	2nd Cross Road (North side)		1	54.50	1.10	1.10	65.95		
	2nd Cross Road (South side)		1	51.90	1.10	1.00	57.09		
	3rd Cross Road (North side)		1	53.70	1.10	1.00	59.07		
	3rd Cross Road (South side)		1	54.30	1.10	1.00	59.73		
	4th Cross Road (North side)		1	51.20	1.10	1.00	56.32		
	4th Cross Road (South side)		1	41.60	1.10	1.00	45.76		
	Perpendicular Road (West side)		1	62.80	1.10	1.00	69.08		
	Perpendicular Road (East side)		1	28.40	1.10	1.10	34.36		
	Gangamma Layout 2nd Cross Road		1	105.60	1.10	1.00	116.16		
	Sahakara Nagara 9th cross road		1	23.00	1.10	1.10	27.83		
	For culvert								
	Padma Tent Road		1	7.60	1.40	1.20	12.77		
	Kashinagar		1	3.10	1.40	1.20	5.21		
	Kashinagar		1	5.60	1.40	1.20	9.41		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							3030.74	225.83	684431.11
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
	TP@4.90%	**10.55**							
		225.83							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	AMRUTHALLI								
	Padma Tent Road(North side)		1	82.00	1.10	0.15	13.53		
	Padma Tent Road(South side)		1	79.90	1.10	0.15	13.18		
	1st cross road (East side)		1	143.10	1.10	0.15	23.61		
	1st cross road(West side)		1	156.10	1.10	0.15	25.76		
	2nd cross road(East side)		1	143.40	1.10	0.15	23.66		
	2nd Cross road(West Side)		1	150.40	1.10	0.15	24.82		
	3rd Cross road(East Side)		1	149.50	1.10	0.15	24.67		
	3rd Cross Road (West Side)		1	144.30	1.10	0.15	23.81		
	1st A Cross Road (North Side)		1	62.00	1.00	0.15	9.30		
	1st A Cross Road (South Side)		1	83.10	1.00	0.15	12.47		
	Kashinagar (North Side)		1	282.20	1.10	0.15	46.56		
	Perpendicular Road (West Side)		1	49.80	1.10	0.15	8.22		
	1st Parallel Road (South Side)		1	170.10	1.10	0.15	28.07		
	1st Parallel Road (North Side)		1	168.20	1.10	0.15	27.75		
	2nd Parallel Road (South Side)		1	71.20	1.10	0.15	11.75		
	2nd Parallel Road (North Side)		1	71.00	1.00	0.15	10.65		
	Perpendicular Road (West Side)		1	30.20	1.00	0.15	4.53		
	Hoysala Layout								
	2nd Cross Road (North side)		1	54.50	1.00	0.15	8.18		
	2nd Cross Road (South side)		1	51.90	1.00	0.15	7.79		
	3rd Cross Road (North side)		1	53.70	1.00	0.15	8.06		
	3rd Cross Road (South side)		1	54.30	1.00	0.15	8.15		
	4th Cross Road (North side)		1	51.20	1.00	0.15	7.68		
	4th Cross Road (South side)		1	41.60	1.00	0.15	6.24		
	Perpendicular Road (West side)		1	62.80	1.00	0.15	9.42		
	Perpendicular Road (East side)		1	28.40	1.00	0.15	4.26		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Gangamma Layout 2nd Cross Road		1	105.60	1.00	0.15	15.84		
	Sahakara Nagara 9th cross road		1	23.00	1.00	0.15	3.45		
	For culvert								
	Padma Tent Road		1	7.60	1.40	0.15	1.60		
	Kashinagar		1	3.10	1.40	0.15	0.65		
	Kashinagar		1	5.60	1.40	0.15	1.18		
							414.80	**5687.57**	**2359209.72**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
	TP@4.90%	**265.67**							
		5687.57							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain raft	Cum							
	AMRUTHALLI								
	Padma Tent Road(North side)		1	82.00	1.10	0.15	13.53		
	Padma Tent Road(South side)		1	79.90	1.10	0.15	13.18		
	1st cross road (East side)		1	143.10	1.10	0.15	23.61		
	1st cross road(West side)		1	156.10	1.10	0.15	25.76		
	2nd cross road(East side)		1	143.40	1.10	0.15	23.66		
	2nd Cross road(West Side)		1	150.40	1.10	0.15	24.82		
	3rd Cross road(East Side)		1	149.50	1.10	0.15	24.67		
	3rd Cross Road (West Side)		1	144.30	1.10	0.15	23.81		
	1st A Cross Road (North Side)		1	62.00	1.10	0.15	10.23		
	1st A Cross Road (South Side)		1	83.10	1.10	0.15	13.71		
	Kashinagar (North Side)		1	282.20	1.10	0.15	46.56		
	Perpendicular Road (West Side)		1	49.80	1.10	0.15	8.22		
	1st Parallel Road (South Side)		1	170.10	1.10	0.15	28.07		
	1st Parallel Road (North Side)		1	168.20	1.10	0.15	27.75		
	2nd Parallel Road (South Side)		1	71.20	1.10	0.15	11.75		
	2nd Parallel Road (North Side)		1	71.00	1.10	0.15	11.72		
	Perpendicular Road (West Side)		1	30.20	1.10	0.15	4.98		
	Hoysala Layout								
	2nd Cross Road (North side)		1	54.50	1.10	0.15	8.99		
	2nd Cross Road (South side)		1	51.90	1.00	0.15	7.79		
	3rd Cross Road (North side)	Cum	1	53.70	1.00	0.15	8.06		
	3rd Cross Road (South side)		1	54.30	1.00	0.15	8.15		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	4th Cross Road (North side)		1	51.20	1.00	0.15	7.68		
	4th Cross Road (South side)		1	41.60	1.00	0.15	6.24		
	Perpendicular Road (West side)		1	62.80	1.00	0.15	9.42		
	Perpendicular Road (East side)		1	28.40	1.00	0.15	4.26		
	Gangamma Layout 2nd Cross Road		1	105.60	1.10	0.15	17.42		
	Sahakara Nagara 9th cross road		1	23.00	1.10	0.15	3.80		
	For RCC Drain walls	Cum							
	AMRUTHALLI								
	Padma Tent Road(North side)		2	82.00	0.15	0.60	14.76		
	Padma Tent Road(South side)		2	79.90	0.15	0.60	14.38		
	1st cross road (East side)		2	143.10	0.15	0.60	25.76		
	1st cross road(West side)		2	156.10	0.15	0.60	28.10		
	2nd cross road(East side)		2	143.40	0.15	0.50	21.51		
	2nd Cross road(West Side)		2	150.40	0.15	0.50	22.56		
	3rd Cross road(East Side)		2	149.50	0.15	0.50	22.43		
	3rd Cross Road (West Side)		2	144.30	0.15	0.50	21.65		
	1st A Cross Road (North Side)		2	62.00	0.15	0.60	11.16		
	1st A Cross Road (South Side)		2	83.10	0.15	0.60	14.96		
	Kashinagar (North Side)		2	282.20	0.15	0.50	42.33		
	Perpendicular Road (West Side)		2	49.80	0.15	0.60	8.96		
	1st Parallel Road (South Side)		2	170.10	0.15	0.50	25.52		
	1st Parallel Road (North Side)		2	168.20	0.15	0.50	25.23		
	2nd Parallel Road (South Side)		2	71.20	0.15	0.60	12.82		
	2nd Parallel Road (North Side)		2	71.00	0.15	0.60	12.78		
	Perpendicular Road (West Side)		2	30.20	0.15	0.50	4.53		
	Hoysala Layout								
	2nd Cross Road (North side)		2	54.50	0.15	0.50	8.18		
	2nd Cross Road (South side)		2	51.90	0.15	0.50	7.79		
	3rd Cross Road (North side)	Cum	2	53.70	0.15	0.50	8.06		
	3rd Cross Road (South side)		2	54.30	0.15	0.50	8.15		
	4th Cross Road (North side)		2	51.20	0.15	0.50	7.68		
	4th Cross Road (South side)		2	41.60	0.15	0.50	6.24		
	Perpendicular Road (West side)		2	62.80	0.15	0.50	9.42		
	Perpendicular Road (East side)		2	28.40	0.15	0.50	4.26		
	Gangamma Layout 2nd Cross Road		2	105.60	0.15	0.50	15.84		
	Sahakara Nagara 9th cross road		2	23.00	0.15	0.50	3.45		
							826.29		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	For culvert raft								
	Padma Tent Road		1	7.60	1.20	0.10	0.91		
	Kashinagar		1	3.10	1.20	0.10	0.37		
	Kashinagar		1	5.60	1.20	0.15	1.01		
	For culvert walls								
	Padma Tent Road		2	7.60	0.25	0.45	1.71		
	Kashinagar		2	3.10	0.25	0.45	0.70		
	Kashinagar		2	5.60	0.20	0.45	1.01		
							5.71		
					Net Qty.		**832.00**	**7416.64**	**6170625.94**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
	TP@4.90%	**346.44**							
		7416.64							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	As per executed quantity						**49.63**	**77617.86**	**3852174.39**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
	TP@4.90%	**3625.62**							
		77617.86							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	AMRUTHALLI								
	Padma Tent Road(North side)		1	82.00	0.90	--	73.80		
	Padma Tent Road(South side)		1	79.90	0.90	--	71.91		
	1st cross road (East side)		1	143.10	0.90	--	128.79		
	1st cross road(West side)		1	156.10	0.90	--	140.49		
	2nd cross road(East side)		1	143.40	0.90	--	129.06		
	2nd Cross road(West Side)		1	150.40	0.90	--	135.36		
	3rd Cross road(East Side)		1	149.50	0.90	--	134.55		
	3rd Cross Road (West Side)		1	144.30	0.90	--	129.87		
	1st A Cross Road (North Side)		1	62.00	0.90	--	55.80		
	1st A Cross Road (South Side)		1	83.10	0.90	--	74.79		
	Kashinagar (North Side)		1	282.20	0.90		253.98		
	Perpendicular Road (West Side)		1	49.80	0.75	--	37.35		
	1st Parallel Road (South Side)		1	170.10	0.75	--	127.58		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	1st Parallel Road (North Side)		1	168.20	0.75	--	126.15		
	2nd Parallel Road (South Side)		1	71.20	0.75	--	53.40		
	2nd Parallel Road (North Side)		1	71.00	0.75	--	53.25		
	Perpendicular Road (West Side)		1	30.20	0.75		22.65		
	Hoysala Layout								
	2nd Cross Road (North side)		1	54.50	0.75	--	40.88		
	2nd Cross Road (South side)		1	51.90	0.75	--	38.93		
	3rd Cross Road (North side)		1	53.70	0.75	--	40.28		
	3rd Cross Road (South side)		1	54.30	0.75	--	40.73		
	4th Cross Road (North side)		1	51.20	0.75	--	38.40		
	4th Cross Road (South side)		1	41.60	0.90	--	37.44		
	Perpendicular Road (West side)		1	62.80	0.90	--	56.52		
	Perpendicular Road (East side)		1	28.40	0.90	--	25.56		
	Gangamma Layout 2nd Cross Road		1	105.60	0.90	--	95.04		
	Sahakara Nagara 9th cross road		1	23.00	0.90	--	20.70		
	Deduct BS Slabs(As per executed quantity)						-301.23		
							1882.01	**2451.00**	**4612794.26**
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
	For Drain	Sqm							
	As per executed quantity						**301.23**	**1014.00**	**305447.22**
	Basic Rate Rs.=	912.00							
	Add 6% A.W Rs. =	54.72							
	Total Rate Rs. =	**966.72**							
	TP@4.90%	**47.37**							
		1014.09							
7	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.26, I.No.5.17 of PW,P&IWTD SR 2018-19)								
	For Drain	Sqm							
	As per executed quantity						**301.23**	**997.41**	**300449.81**
	Basic Rate Rs.=	897.00							
	Add 6% A.W Rs. =	53.82							
	Total Rate Rs. =	**950.82**							
	TP@4.90%	**46.59**							
		997.41							
8	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								

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Improvements to roads & drains in Amruthalli & Sunkadakatte ward

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	For Culvert Slabs	Sqm							
	Padma Tent Road		1	7.60	1.20	-	9.12		
	Kashinagar		1	3.10	0.90	-	2.79		
	Kashinagar		1	5.60	0.90	-	5.04		
							16.95	5683.48	96334.99
	Add GST @ 12%							Sub Total Rs.	18381467.44
									2205776.09
	CERTIFICATE:							Total Rs.	20587243.53

1 The work spot has been inspected by me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Project Division Yelahanka
BBMP

Assistant Executive Engineer
Project Division Yelahanka
BBMP
9/01/2021

Executive Engineer
Project Division Yelahanka
BBMP

Technical Sanction

Accorded For Rs.20587243.53
Head of A/C P0190
CER NO :73 Dt:11.02.2021

CE (YNK)

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